



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

July 24, 2020

Nickie Geros
East Chicago Sanitary District
5201 Indianapolis Blvd
East Chicago, IN 46312
TEL: 219-391-8466
FAX:

RE: S-901

Order No.: 20071743

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 7/16/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Andrew Etter
Project Manager
328 Ley Rd.
Fort Wayne, IN 46825



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Analytical Report

(continuous)

WO#: 20071743

Date Reported 7/24/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20071743

Project: S-901

Lab ID: 20071743-001

Collection Date: 7/15/2020 9:17:00 AM

Client Sample ID: #901

Matrix: WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
CYANIDE, AVAILABLE BY LIGAND EXCHANGE				OIA-1677-09	Analyst: JGB	
Cyanide, Available	0.23	0.010		mg/L	5	7/21/2020 12:14:00 PM
OIL AND GREASE, TOTAL				E1664	Analyst: HN	
Oil & Grease, Total	7.0	5.0		mg/L	1	7/17/2020 7:04:36 PM
OIL AND GREASE, PETROLEUM HYDROCARBONS				E1664	Analyst: JGB	
Oil & Grease, Petroleum	< 5.0	5.0		mg/L	1	7/19/2020 2:13:56 PM
SV COMPOUNDS FOR CATEGORICAL RQTS				E625	Analyst: SF	
Bis(2-ethylhexyl)phthalate	< 0.10	0.10		mg/L	10	7/22/2020 5:26:00 PM
Carbazole	< 0.10	0.10		mg/L	10	7/22/2020 5:26:00 PM
Fluoranthene	< 0.10	0.10		mg/L	10	7/22/2020 5:26:00 PM
n-Decane	0.16	0.10		mg/L	10	7/22/2020 5:26:00 PM
n-Octadecane	< 0.10	0.10		mg/L	10	7/22/2020 5:26:00 PM
SEMI-VOLATILES IN WW				E625	Analyst: SF	
Fluoranthene	< 0.10	0.10		mg/L	10	7/22/2020 5:26:00 PM
Phenanthrene	< 0.10	0.10		mg/L	10	7/22/2020 5:26:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit



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Analytical Report

(continuous)

WO#: 20071743

Date Reported 7/24/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20071743

Project: S-901

Lab ID: 20071743-002

Collection Date: 7/15/2020 9:17:00 AM

Client Sample ID: #901

Matrix: WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FLUORIDE				E300.0	Analyst: HN	
Fluoride	4.5	0.5	*	mg/L	5	7/16/2020 8:35:00 PM
CHEMICAL OXYGEN DEMAND				M5220 D	Analyst: ANS	
Chemical Oxygen Demand	892	10.0		mg/L	1	7/16/2020 6:00:00 PM
AMMONIA AS N				E350.1	Analyst: AC	
Nitrogen, Ammonia (As N)	107	1.00	*	mg/L	10	7/20/2020 12:53:11 PM
PHENOLICS IN WASTEWATER				E420.1	Analyst: JGB	
Phenolics, Total Recoverable	0.212	0.050		mg/L	2	7/21/2020 5:13:43 PM
TOTAL PHOSPHORUS				M4500-P F	Analyst: NB	
Total Phosphorus	0.683	0.050		mg/L	1	7/21/2020 2:35:00 PM
TOTAL SUSPENDED SOLIDS				M2540 D	Analyst: DDE	
Suspended Solids (Residue, Non-Filterable)	151	54		mg/L	1	7/17/2020 1:45:00 PM
MERCURY				E245.1	Analyst: FJR	
Mercury	0.00010	0.00010		mg/L	1	7/21/2020 9:28:09 AM
METALS IN WATER BY ICP-MS, TOTALS				E200.8	Analyst: FJR	
Arsenic	0.0167	0.00020		mg/L	1	7/20/2020
Chromium	0.00638	0.00040		mg/L	1	7/20/2020
Cobalt	0.00150	0.00010		mg/L	1	7/20/2020
Copper	0.00629	0.00020		mg/L	1	7/20/2020
Lead	0.00066	0.00020		mg/L	1	7/20/2020

Qualifiers:

* Value exceeds Maximum Contaminant Level
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit



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Analytical Report

(continuous)

WO#: 20071743

Date Reported 7/24/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20071743

Project: S-901

METALS IN WATER BY ICP-MS, TOTALS

E200.8

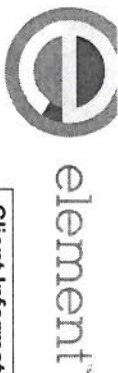
Analyst: FJR

Molybdenum	0.0568	0.00020	mg/L	1	7/20/2020
Nickel	0.0176	0.00100	mg/L	1	7/20/2020
Tin	< 0.00500	0.00500	mg/L	1	7/20/2020
Zinc	0.0884	0.00040	mg/L	1	7/20/2020

Qualifiers:

* Value exceeds Maximum Contaminant Level
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

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M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit



Chain of Custody

3537 NW 50

Laboratory
Number:

20071743

Company
Name:

East Chicago Sanitary District

Contact Name:

Nickie Geros

Address:

5201 Indianapolis Blvd

City, State Zip:

East Chicago IN 46312

Phone
Number:

219-391-8466

Ext.
240

Fax Number:

E-mail
Address: ngeros@eastchicago.com

Client Information:

Billing Information:

Same

PO Number:

Quote Number:

Required QC Level

Project Name/Number:

S-901

Sampler's Signature

Shipping Method:

UPS / FedEx
Element / Hand / Mail

Matrix Code

DW = Drinking Water
WW = Waste Water
GW = Ground Water
AQ = Aqueous
OT = Other
SL = Sludge
O = Oil
F = Food
NG = Natural Gas
NGL = Natural Gas Liquid
PW = Produced Water
CF = Completion Fluid

Which Regulations Apply:

- ☐ RCRA ☐ Drinking Water
☐ POTW ☐ Distribution
☐ NPDES ☐ Special
☐ USDA/FDA ☐ State
☐ RECAP/RISC ☐ Other

Turn Time

5 TAT

(Rush turn times
will incur a
surcharge and
must be pre-
approved by
lab.)

Collection Information

Date Time

Grab /
Composite

Matrix

Quantity

Type
P=Plastic,
G=Glass, V=Vial

Pres.

HCl, HNO₃, H₂SO₄
NaOH, Na₂S₂O₃

CYANIDE 1677

Oil & Grease T&SI

**SVOC list

*Metals

NH₃, T.PHOS, COD

PHENOL

300: FI

TSS

Comments

Samples Meet
Acceptance Policy
(Yes) No

*As, Cr, Cu, Pb,
Mo, Ni, Zn, & Hg,
Extra: Co, Sn

**Carbazole, n-
Decane, Fluoranthene,
n-Octadecane,
Phenanthrene,
Bis(2EH) Phthalate
Temp. 32.5°C

S-901 Grab	7-15-2, 9:17	Grab	WWV	1	P	NaOH	x												
S-901 Grab		Grab	WWV	1	G	H2SO4		x											
S-901 Grab		Grab	WWV	1	G	NONE			x										
S--901 Composite		Comp	WWV	1	P	HNO3					x								
S--901 Composite		Comp	WWV	1	P	H2SO4						x							
S-901 Composite		Comp	WWV	1	G	H2SO4								x					
S-901 Composite		Comp	WWV	2	P	NONE										x		x	

Relinquished by

Date/Time

Received by

Date/Time

Composite Sampler

Start Date/Time: 7-15-20 9:17
End Date/Time: 7-16-20 8:31

Received at lab on ice?
☒ Yes ☐ No Temp: 6.0°C

1 M. Luke
2 Jay D
3

7-16-20/10:15
7-16-20 15:08

7-16-20 10:15
7-16-20 15:08

7-16-20 10:15
7-16-20 15:08

7-16-20 10:15
7-16-20 15:08

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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